profonds devenir membraneuse et d'un brun très clair ou même manquer totalement à la partie inférieure.

Les périthèces sont tantôt isolés et alignés l'un à côté de l'autre, ayant l'aspect de niches s'ils sont profonds, de petites poires s'ils sont superficiels, tantôt réunis plusieurs ensemble, au moins à la base, par un stroma charbonneux tres réduit, tantôt enfin complètement soudés, à cavités confluentes mais à cols séparés.

[Ascomycetae.]

TRICHOPHYMA Rehm, n. g. Myriangiales. Hedwigia, 44:7. 1904.

"Mycelium microthyrioideum e vittis tenellis centrifugis radiatim prosenchymatice contextum, hyalinum, pilis hyalinis septatis longis obessum. Perithecia sparsa, plerumque solitaria, tubercula minutissima, membrana tenuissima obtecta. Asci globosi dispersi in strato hyalino, 8-spori. Sporae oblongae, 3-septatae, demum muriformiter divisae, hyalinae."

LIST OF NEW YORK FUNGI.

F. L. STEVENS.

A list of fungi collected in Onondago county, New York, which may be of some interest to mycologists, is presented below. The specimens, with many others not determined, have been placed in the collection of the Onondago Botanical Club:

Actinonema Rosae (Lib.) Fr. on Rosa Rubiginosa — Syracuse, 7-11-95.

Aecidium Actaeae Opiz, on Actaea spicata var. rubra — Geddes, 8-8-95; Syracuse, 8-13-94.

Aecidium Asterum Schw. on Solidago sp.— Otisco, 8-22-90.

Aecidium Fraxini Schm. on Fraxinus pubescens — South Bay, 7-19-94.

Aecidium Grossulariae Schum. on Ribes Grossularia — Cardiff, 7-8-90.

Bremia Latucae Regel. on Lactuca leucophaea — Syracuse, 8-19-95, 9-4-99.

Cercospora Alismatis Ell. & Hol. on Alisma Plantago — Cicero, 7-19-94.

Cercospora Caulophylli Pk. on Caulophyllum Thalictroides — Syracuse, 9-13-94.

Cercospora elongata Pk. on Dipsacus sylvestris — Syracuse, 7-18-95.

Cercospora varia Pk. on Vibernum Cassiniodes — Tully, 6-28-94.

Cercospora Violae Sacc. on Viola tricolor — Syracuse, 7-11-98.

Coleosporium Campanulae (Pers.) Lév. on Campanula rapunculoides — Jamesville, 9-2-96.
Colletotrichum Spinaciae E. & Hals. on Spinacia oleracea — Syracuse, 9-8-92.
Cystopus Bliti (Biv.) DeBy. on Amaranthus retroflexus — Syracuse, 9-1-97, 7-10-95, 8-18-95, '97.
Cystopus Bliti (with oöspores) on Amarantus retroflexus — Syracuse, 7-28-95, 7-8-92.
Cystopus candidus (Pers.) Lev. on Sisymbrium officinale — Syracuse, 7-10-95.
Cystopus candidus (Pers.) Lev. on Brassica Sinapistrum, 7-2-95, Capsella Bursapastoris — Syracuse, 7-15-95.
Cystopus candidus (Pers.) Lev. on Raphinus (cultivated) — Syracuse, 8-7-96, 7-20-95.
Cystopus candidus (Pers.) Lev. on Nasturtium Armoracia — Warners, 8-2-95.
Cystopus Portulacae (DC.) Lev. on Portulaca oleracea — Syracuse, 9-5-97, 7-10-95.
Cystopus spinulosus D. By on Cirsium arvense — Syracuse, 7-18-92; 7-8-92.
Cystopus Tragopogonis (Pers.) Schw. on Ambrosia artemisaefolia — Syracuse, 7-4-98.
Cystopus Tragopogonis (Pers.) Schw. on same with oöpores — Syracuse, 8-15-98.
Cystopus Tragopogonis (Pers.) Schw. on Tragopogon — Syracuse, 7-23-98.
Cystopus Tragopogonis (Pers.) Schw. on Tragapogon (cultivated) — Syracuse, 7-27-98, 9-1-97.
Doassantia deformans Setch., on Sagittaria Variabilis — Cardiff, 8-15-95.
Doassantia Martianoffiana (Th.) Schw. on Potamogeton—Green Lake, 8-25-97.
Entomophthora spaerosperma Fres. on Phytoniomus punctatus — Green Lake, 8-25-97; Jamesville, 7-22-95.
Entyloma Compositarum Farl. on Ambrosia artemisaefolia — South Bay, 7-15-95.
Entyloma Compositarum Farl. on Ambrosia artemisaefolia — Syracuse, 7-22-95, 8-97.
Erysiphe Phlogis Schw., on Phlox divaricata — Syracuse, 7-12-95; Howlett Hill, 8-23-97.
Erysiphe Ambrosiae Schw., on Ambrosia Artemisaefolia — Syracuse, 8-8-95.
Erysiphe lamprocarpa (Wallr.), on Hydrophyllum Canadense — Syracuse, 7-13-97; Hydrophyllum Virginicum, Syracuse, 7-13-94.
Erysiphopsis Parnassiae Hals., on Parnassia coroliniana — Navarino, 8-17-97; Marietta, N. Y., 8-23-97.
Gloeosporium elasticae, on Ficus elastica — Syracuse, 1-3-93.

Gloeosporium Musarum, on Musa paradisica — Syracuse, 8-17-95.
Helotium Herbarum (Pers.) Fr. on Impatiens pallida — Jamesville, 7-14-87.
Leptosphaeria typhicola Karst., on Typha — Syracuse, 1-4-92.
Leptosphaeria Typhae Karst., on Typha — Syracuse, 1-4-92.
Marsonia Juglandis (Lib.) Sacc. on Juglans cinerea — Syracuse, 6-16-94.
Marsonia Populi Lib. on Populus alba — Cicero, 7-19-94.
Marsonia Toxicodendri on Rhus Toxicodendron — Syracuse, 8-12-95.
Melanconia Tiliae on Tilia — Syracuse, 7-16-94.
Ovularia decipiens Sacc. on Ranunculus acris — Syracuse, 5-13-94.
Peronospora Arthuri Farl. on Oenothera biennis — Syracuse — 7-10-95, 7-9-92.
Peronospora effusa (Grev.) Rbh. on Chenopodium album — Syracuse, 7-8-92, 7-9-92.
Peronospora Hydrophylli Wait. on Hydrophyllum virginicum — Syracuse, 6-13-94.
Peronospora parasitica (Pers.) D. By on Brassica nigra — Onon. Valley, 7-26-95.
Pestalozzia Guepini Desm. on Camellia Japonica — Syracuse, 1-4-92.
Phoma punctiformis Desm. on Lychnis sp.— South Bay, 7-15-92.
Phragmidium sp. on Potentilla Canadensis — Syracuse, 8-2-95.
Phargmidium subcorticum (Schw.) Wint. on Rosa (cultivated) — South Bay, 8-21-96, 8-21-97.
Phyllosticta pallida Hals. on Silene noctiflora — Syracuse, 7-5-92.
Phyllosticta bicolor Pk. on Rubus odoratus — Green Pond, 9-1-96.
Phyllosticta Syriaca Sacc. on Hibiscus Syriacus, Variegated — Syracuse, 9-19-91.
Phyllosticta typhina Sacc. on Typha — Syracuse, 14-92.
Phytophthora infestans (Mont.) D. By, on Solanum tuberosum — Geddes, N. Y., 9-1-97.
Plasmodiophora Brassicae Wor. on Capsella bursa-pastoris — Syracuse, 7-10-95, 8-2-95.
Plasmodiosphora Brassicae Wor. on Brassica oleracea — Syracuse, 8-2-95.
Podosphaera oxyacanthae (DC.) D. By. on Cherry — Syracuse, 9-1-97.
Pseudopeziza Medicaginis (Lib.) Sacc. on Medicago sativa — Syracuse, 7-20-97.
Pseudopeziza Medicaginis (Lib.) Sacc. on Medicago lupulina — Syracuse, 7-10-95.
Puccinia Anemones-Virginianae Schw. on Anemone — Chittenango Springs, 8-6-97; Syracuse, 7-6-92.
Puccinia Asteris Duby, on Aster — Syracuse, 7-9-92.

Puccinia Calthae Lk. on Caltha palustris — Cedarville, 7-24-95.
Puccinia Circaeae Pers. on Circaeae alpina — Otisco, 8-23-95, 9-2-96.
Puccinia Circaeae Pers. on Circaeae lutetiana — Jamesville, 7-22-95.
Puccinia graminis Pers. on Agropyrum repens — Syracuse, 7-18-92.
Puccinia graminis Pers. on Avena sativa — Syracuse, 9-2-92, 7-26-94.
Puccinia graminis Pers. on Berberis vulgaris — Syracuse, 7-19-95, 5-30-90, 5-15-92, 6-19-98.
Puccinia graminis Pers. on Dactylis glomerata — Syracuse, 7-8-92.
Puccinia graminis Pers. on Triticum vulgare — Otisco, 7-7-91.
Puccinia Hieracii Mart. on Hieracium — Cedarvale, 7-20-97.
Puccinia investita Schw. II on Gnaphalium decurrens — Jamesville, 7-14-94.
Puccinia Malvacearum Mont. on Althaea rosea — Geddes, 7-25-95; Syracuse, 1-2-96.
Puccinia Malvacearum Mont. on Malva rotundifolia — Geddes, 7-25-95; Syracuse, 7-8-92, 1-2-96.
Puccinia Menthae Pers. on Mentha viridis — Cedarvale, 7-20-97; Syracuse, 8-11-95; Onondaga Hill, 8-18-97.
Puccinia Menthae Pers. on Calamintha Chenopodioides — Syracuse, 7-14-94.
Puccinia Pimpinellae (Str.) Link. on Osmorrhiza brevistylis — Jamesville, 7-22-95; Onondaga Valley, 7-14-94.
Puccinia Podophylli Schu. on Podophyllum peltatum — Onondaga Valley, 7-11-95, 7-25-97; Syracuse, 5-15-90.
Puccinia vera (DC.) Wint. on Triticum vulgare — Syracuse, 7-6-92.
Puccinia Sorghi Schw. II. on Zea Mays — Syracuse, 9-7-96, 8-7-95.
Puccinia spreta Pk. on Mitella diphylla — Otisco, 8-29-91; Cedarvale Green Pond, 9-2-95, 7-29-95.
Puccinia spreta Pk. on Tiarella cordifolia — Cedarville, 7-29-95.
Puccinia suaveolens (Pers.) Rostr. on Cirsium arvense — Geddes, 8-28-97; Syracuse, 6-14-98.
Puccinia suaveolens (Pers.) Rostr. Cirsium lanceolatus—Onon. Valley, 8-8-95.
Puccinia Veratri Niessl. on Veratrum viride — Manlius, 7-19-95.
Puccinia Xanthii Schw. on Xanthium sp. — Onondaga Lake, 7-13-95.
Ramularia brunnea Pk. on Tussilago Farfara — Onon. Valley, 7-24-94.
Ramularia barbarea Pk. on Barbarea vulgaris — Syracuse, 1-2-96.

Ramularia Celastri E. & M. on Celastrus — Jamesville, 7-14-94.
Ramularia Tulasnei Sacc. on Fragaria Virginiana — Warners, 8-2-95.
Ramularia variabilis Fckl. on Verbascum Thapsus — Syracuse, 7-13-94.
Sclerospora graminicola (Sacc.) Schr. on Setaria — Cross Lake, 8-14-01; VanBuren, 8-14-01; Geddes, 8-20-01; Long Branch, 8-14-01; Plainville, 8-14-01; Ionia, 8-14-01; Syracuse, 7-30-01, 7-29-01; Amboy, 8-14-01; Warners, 8-14-01; Baldwinville, 8-14-01.
Septoria Atriplicis (West) Fckl. on Chenopodium album — Syracuse, 7-8-92.
Septoria Cirsii Neissl. on Cirsium arvense — Syracuse, 6-18-94.
Septoria cornicola Desm. on Cornus — Jamesville, 7-14-94.
Septoria corylina Pk. on Corylus rostrata — Tully, 6-28-94.
Septoria Fairmani E. & E. on Althaea rosea — S. Bay, 7-15-92.
Septoria malvicola E. & M. on Malva rotundifolia — Syracuse, 7-8-92.
Septoria Oenotherae West. on Oenothera biennis — Syracuse, 7-8-92.
Septoria Osmorrhizae Pk. on Osmorrhiza brevistylis — Syracuse, 7-8-92.
Septori Pisi West. on Pisum (cult.) — Syracuse, 6-14-98; Geddes, 7-14-94; Syracuse, 7-8-92.
Septoria Petroselini apii Desm. on Apium graveolens — Warners, 8-2-95.
Septoria podophyllina Pk. on Podophyllum peltatum — Syracuse, 7-11-95, 7-13-92, 7-13-95.
Septoria silenicola E. & M. on Silene noctiflora — Syracuse, 7-8-92, 7-8-95.
Septoria Trillii Pk. on Trillium grandiflorum — Syracuse, 7-9-92.
Septoria verbascicola B. & C. on Verbascum lychnidis — South Bay, 7-16-92.
Sphaeropsis Malorum Pk. on Pyrus malus — Syracuse, 8-16-95.
Synchytrium decipiens Farl. on Amphicarpaea monoica — Marcellus, 8-15-95; Pompey, 8-25-90.
Synchytrium fulgens Schr. on Oenothera biennis — Chittenonga Spr., 8-6-97.
Uredo Agrimoniae (DC.) Schr. on Agrimonia Eupatoria — Otisco, 9-2-95; Marcellus, 8-15-95.
Uredo nitens Schw. on Rubus occidentalis — Syracuse, 6-17-98, 6-12-94.
Urocystis Anemones (P.) Schr. on Anemone Virginiana — Syracuse, 7-9-92.
Urocystis occulta (Wallr.) Rbh. on Elymus sp. — Onondaga, 7-7-90.

Uromyces Caladii (Schu.) Farl. on Arisaema triphyllum I — Syracuse, 7-19-94; III Jamesville, 7-22-95.
Uromyces pyriformis Cke. on Acorus Calamus — Navarino, 8-15-95.
Uromyces Trifolii (Hedw.) Lev. on Trifolium pratensis — Syracuse, 9-2-91.
Ustilago segetum (Bull.) Dittm. on Hordeum sp. — Otisco, 7-7-90.
Ustilago Maydis (DC.) Cda. on Zea Mays — Syracuse, 8-2-95.

NOTES FROM MYCOLOGICAL LITERATURE. XXII.

W. A. KELLERMAN.

Arthur, J. C.

Clear and convincing "Reasons for Desiring a Better Classification of the Uredinales" are given in the July No. of the Journal of Mycology, 1906. No review or brief resumé can do the article justice and we content ourselves with giving a few of Dr. Arthur's extracts: "There are two especially prominent reasons for the consistent naming of the species of rusts, and for other plants as well. One is to be able to designate each particular kind as desired by using an authoritative name, and the other is to indicate the relationship which that kind holds to other kinds according to its recognized place in a natural system. * * * One of the impediments at the present time to an understanding of the interrelationship of rusts lies in the lack of reasonable segregation of genera. In support of this statement one need only recall the fact that the genus *Puccinia* as now constituted contains more than half of all known species of rusts, and what may not be so well known, that within this category are contained groups of the most diverse forms and affinities. * * * If we require that a genus should represent as fully as possible a group of organisms giving evidence of having been derived from the same ancestors, and therefore with species more closely related genetically to one-another than to those of any other genus, it becomes necessary to explain a well known parallelism, brought to our attention by Fischer of Switzerland. He showed that in many cases the teliospores of a species having an extremely abbreviated life-cycle, *e. g. Puccinia Leucanthemi,* closely resemble in structure those of an autoecious species, *e. g., P. Aecidii-Leucanthemi,* in which the host of its aecia is the same or practically so as the host of the abbreviated species. Tranzschel has successfully applied this rule of parallelism in predicting the host of the unrecognized aecia in certain heteroecious species. In such cases of parallelism there can be no doubt that the forms in question have truly descended from a common ancestor, but dating a long way back, even to the early days when all the rusts